

Résumé of Jordi Bieger

PERSONAL INFORMATION

Jordi Erwan Bieger born December 9, 1985 in Voorburg, The Netherlands.
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PROFESSIONAL EXPERIENCE

10/2010 until present: **Machine Vision Engineer**

VicarVision, Amsterdam



Researching and implementing state of the art machine vision algorithms and software. Focus areas include object detection, 3D scene modeling using one or multiple cameras, pose estimation, task recognition and feature extraction from faces.

03/2009 until 05/2010: **Student Researcher**

Philips Research, Eindhoven



Researching the effects of properties (color, size, etc.) of visual stimulation on a special kind of brain response (the SSVEP) for use in Brain-Computer Interfaces. This work entails designing experiments, implementing a BCI, writing articles and collaborating with other researchers in a corporate setting.

09/2007 until 09/2008: **Web Programmer**

RE-phrase B.V., Nijmegen



Creating and extending a web application that provides a new way of interaction for users on the internet that combines the strengths of browsing and chatting using technologies like XML, AJAX and Perl.

02/2007 until 08/2008: **Programming Paradigms Teaching Assistant**

Radboud University, Nijmegen



Helping create this new university course for sophomore and freshman Artificial Intelligence students.

- ✓ Taking over (parts of) lectures from the teacher
- ✓ Creating, refining and grading assignments
- ✓ Supervising the computer practical session
- ✓ Arranging course locations and ICT-infrastructure
- ✓ Taking care of communication with the Blackboard web application
- ✓ Supervisor: [dr. ir. P. Desain](#)

08/2005 until 02/2008: **Programming 1 and 2 Teaching Assistant**

Radboud University, Nijmegen



Supervising computer practical sessions and grading assignments for introductory programming courses for freshman Artificial Intelligence, Computer Science, Information Science and Mathematics students.

1. Supervisor Programming 1, Algorithmics: [drs. G. Paulussen](#)
2. Supervisor Programming 1, Algorithmics: [dr. P. Achten](#)
3. Supervisor Programming 2, Data Structures: [dr. S. Smetsers](#)

01/2006 until 01/2010: **Webmaster (voluntary)**

Taekwon-Do Vereniging "Chang-Hun", Boxmeer



Building and maintaining Taekwon-Do Vereniging "Chang-Hun"'s website.

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EDUCATION

08/2004 until 08/2010: **Artificial Intelligence: Cognitive Science, M.Sc.**

Radboud University, Nijmegen



- ✓ Computer Science electives
- ✓ Graduated cum laude (with honors)
- ✓ Top of the class

IMPORTANT PROJECTS:

- ✓ Leading a four man team to develop a web-based information system for a sports club
- ✓ Preprocessing handwriting data for online optical digit recognition using a neural network
- ✓ Creating the AI for a simulated football team
- ✓ Developing an expert system for World of Warcraft character selection
- ✓ Building a web-crawler for mp3-file collection and ID3 information gathering
- ✓ Creating a user interface for an interactive map application for crisis management
- ✓ Development and analysis of a novel method for dealing with catastrophic interference in artificial neural networks
- ✓ Development of a high performance SSVEP-based BCI system that allows users to command a computer program with their brain

07/1998 until 06/2004: **VWO (pre-scientific secondary education)**

Elzendaalcollege, Boxmeer



- ✓ Profile: Nature & Technology (exact sciences)
- ✓ Electives: Computer Science and Economics 1
- ✓ Grade average: 7.9 / 10

ONLINE COURSES:

Course	Professor(s)	Result
Introduction to Databases (db-class)	prof. Widom (Stanford)	99%
Introduction to Machine Learning (ml-class)	prof. Ng (Stanford)	100%
Introduction to Artificial Intelligence (ai-class)	prof. Thrun & prof. Norvig (Stanford)	100%
Software Development for SaaS	prof. Fox & prof. Patterson (Berkeley)	97%
CS101: Building a Search Engine	prof. Evans (Udacity and University of Virginia)	maximum
CS373: Programming A Robotic Car	prof. Thrun (Udacity)	maximum
Algorithms: Design and Analysis, Part 1	prof. Roughgarden (Stanford)	96.8%
Probabilistic Graphical Models	prof. Koller (Stanford)	75%
Model Thinking	prof. Page (University of Michigan)	99%
Introduction to Logic	prof. Genesereth (Stanford)	92%
Computer Vision: The Fundamentals	prof. Malik (Berkeley)	99%
Algorithms, Part I	prof. Sedgewick & prof. Wayne (Princeton)	99%
Statistics One	prof. Conway (Princeton)	100%
Introduction to Mathematical Thinking	prof. Devlin (Stanford)	90%
Functional Programming Principles in Scala	prof. Odersky (EPFL)	100%
Mathematical Biostatistics Boot Camp	prof. Caffo (Johns Hopkins University)	100%
Writing in the Sciences	prof. Sainani (Stanford)	maximum

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SKILLS

Expertise:

- ✓ Computer Vision
- ✓ Machine Learning
- ✓ Artificial Intelligence
- ✓ Web Development

Programming:

- ✓ C#
- ✓ C/C++
- ✓ PHP
- ✓ Clean
- ✓ Java
- ✓ Scheme
- ✓ SQL
- ✓ (X)HTML
- ✓ MATLAB
- ✓ Perl
- ✓ JavaScript

Operating systems:

- ✓ Windows
- ✓ Mac OS X
- ✓ Linux

ADDITIONAL INFORMATION

- ✓ Speaker at the National (Dutch) Computer Science Education Conference 2007
- ✓ Black-belt holding Taekwon-Do ex-teacher of various groups of all ages and skill levels

PUBLICATIONS

- ✓ **J. BIEGER**, I. SPRINKHUIZEN-KUYPER, AND I. VAN ROOIJ (2009), *MEANINGFUL REPRESENTATIONS PREVENT CATASTROPHIC INTERFERENCE*, IN: T. CALDERS, K. TUYLS, AND M. PECHENIZKIY (EDS.), PROCEEDINGS OF THE 21ST BNAIC
- ✓ D. ZHU, **J. BIEGER**, G. GARCIA MOLINA, AND RONALD M. AARTS (2010), *A SURVEY OF STIMULATION METHODS USED IN SSVEP-BASED BCIs*, COMPUTATIONAL INTELLIGENCE AND NEUROSCIENCE, VOL. 2010
- ✓ T. TSONEVA, **J. BIEGER**, AND G. GARCIA MOLINA (2010), *TOWARDS ERROR-FREE INTERACTION*, PROCEEDINGS OF THE 32ND EMBC